

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

IN THE CLAIMS:

Please amend claim 2 as follows:

1. (Previously Presented) A coin bank comprising:
- a coin hopper;
 - a coin slide positioned below said coin hopper; and,
 - a coin separating and sorting assembly located between said
- 5 coin hopper and said coin slide, said coin separating and sorting assembly comprising:
- a separating wheel including at least one coin receiving aperture and a toroidal flange extending away from a face of said separating wheel, and
- 10 a wheel housing on which said separating wheel is supported, said wheel housing including a plurality of coin sorting apertures of different sizes.
2. (Currently Amended) The bank of claim 1 wherein said separating wheel further comprises a second toroidal flange having a set of gear teeth.
3. (Original) The bank of claim 2 further comprising a motor having an output shaft operably connected to said gear teeth of said toroidal flange for driving the separating wheel.

4. (Original) The bank of claim 3 further comprising a gear train positioned between said output shaft and said gear teeth of said toroidal shaft, one gear of said gear train being fastened on said output shaft and another gear of said gear train engaging said gear teeth of said toroidal
5 flange.

B1
5. (Original) The bank of claim 2 wherein said wheel housing toroidal channel includes an opening through which said gear teeth of said toroidal flange can be accessed.

6. (Original) A coin bank comprising:
a coin hopper;
a sorter coin container positioned below said coin hopper; and,
a coin separating and sorting assembly located between said
5 coin hopper and said sorted coin container, said coin separating and sorting assembly comprising:
a separating wheel including at least one coin receiving aperture,
a wheel housing on which said separating wheel is
10 supported, said wheel housing comprising:
a plurality of sorting apertures of different sizes,
each aperture being sized to allow passage of a coin of a defined maximum diameter therethrough.

7. (Original) The bank of claim 6 wherein said wheel housing apertures are arranged in a size order.

8. (Original) The bank of claim 6 wherein at least one of said sorting apertures has a trailing edge with an angled surface.

9. (Original) The bank of claim 6 wherein said wheel housing further comprises a central portion located radially inwardly from said plurality of sorting apertures, said central portion having a recessed area in an upper surface thereof.

10. (Previously Presented) A coin bank comprising:
a coin hopper;
a sorted coin container positioned below said coin hopper; and,
a coin separating and sorting assembly located between said
5 coin hopper and said sorted coin container, said coin separating and sorting assembly comprising:

a separating wheel including at least one coin receiving aperture wherein said at least one coin receiving aperture in said separating wheel includes a curved leading edge having a radius of curvature only
10 slightly larger than a diameter of a largest size coin meant to be sorted, and
a wheel housing on which said separating wheel is supported, said wheel housing including a plurality of sorting apertures of different sizes, each aperture being sized to allow passage of a coin of a

defined maximum diameter therethrough.

11. (Original) The bank of claim 10 wherein said leading edge of each of said plurality of apertures of said separating wheel has a thickness slightly greater than a thickness of a thickest coin meant to be sorted.

Bo 1

12. (Currently Amended) The bank of claim 10 wherein each of said plurality of apertures in said separating wheel has a diameter which is smaller than a combined diameter of two of a smallest diameter ones of the coins meant to be sorted large enough to accommodate a diameter of the
5 largest coin meant to be sorted and wherein a diameter of the largest coin
meant to be sorted is smaller than twice the diameter of the smallest diameter
coin meant to be sorted so that two of the smallest diameter ones of the coins meant to be sorted cannot fit into one aperture.

13. (Original) The bank of claim 10 wherein said at least one aperture in said separating wheel has a trailing edge with a tapered surface that is smaller in thickness than is a thickness of a thinnest one of the coins meant to be sorted in order to prevent two of the coins from becoming
5 stacked in a single aperture.

14. (Original) A coin separating and sorting assembly comprising:
a separating wheel including at least one coin receiving
aperture;

a wheel housing on which said separating wheel is supported,
5 said wheel housing comprising at least one sorting aperture which is sized to
allow passage of a coin of a defined maximum diameter therethrough;

a coin support surface provided on one of the separating wheel
and the wheel housing; and,

10 a coin rolling surface defined on one of the separating wheel
and the wheel housing.

15. (Original) The assembly of claim 14 wherein said separating
wheel comprises a set of gear teeth and further comprising a motor having an
output shaft operably connected to said gear teeth of said separating wheel
for driving said separating wheel.

16. (Original) The assembly of claim 14 wherein said wheel
housing comprises a plurality of apertures, arranged in a size order.

17. (Original) The assembly of claim 16 wherein at least one of said
apertures has a trailing edge with an angled surface.

18. (Original) The assembly of claim 14 wherein said wheel
housing further comprises a central portion having a recessed area in an
upper surface thereof.

19. (Original) A coin separating and sorting assembly comprising:

a separating wheel including at least one coin receiving aperture, wherein said at least one of coin receiving aperture in said separating wheel includes a curved leading edge having a radius of curvature
5 only slightly larger than a diameter of a largest sized coin meant to be sorted;

B1
a wheel housing on which said separating wheel is supported, said wheel housing comprising at least one sorting aperture which is sized to allow passage of a coin of a defined maximum diameter therethrough;

a coin support surface provided on one of the separating wheel
10 and the wheel housing; and,

a coin rolling surface defined on one of the separating wheel and the wheel housing.

20. (Original) The assembly of claim 19 wherein said leading edge of each of said plurality of apertures of said separating wheel has a thickness slightly greater than a thickness of a thickest coin meant to be sorted.

21. (Currently Amended) The assembly of claim 19 wherein each of said plurality of apertures in said separating wheel has a diameter which is smaller than a combined diameter of two of a smallest diameter ones of the coins meant to be sorted large enough to accommodate a diameter of the
5 largest coin meant to be sorted and wherein a diameter of the largest coin meant to be sorted is smaller than twice the diameter of the smallest diameter coin meant to be sorted so that the two of the smallest diameter ones of the coins meant to be sorted cannot fit into a single aperture.

22. (Original) The assembly of claim 19 wherein each of said plurality of apertures and said separating wheel has a trailing edge with a tapered surface that is smaller in thickness than is a thickness of a thinnest coin meant to be sorted in order to prevent two of the coins from becoming

5 stacked in a single aperture.

23. (Previously Presented) A coin separating and sorting assembly comprising:

a separating wheel including at least one coin receiving aperture;

5 a wheel housing on which said separating wheel is supported, said wheel housing comprising at least one sorting aperture;

a coin support surface provided on one of the separating wheel and the wheel housing; and,

a coin rolling surface defined on one of the separating wheel

10 and the wheel housing, wherein a trailing edge of the separating wheel at least one coin receiving aperture is so shaped as to allow an associated coin held in said at least one coin receiving aperture to contact said coin rolling surface before the associated coin reaches the at least one sorting aperture.

24. (Original) The assembly of claim 23 wherein said trailing edge has a tapered surface that is smaller in thickness than is a thickness of a thinnest coin meant to be sorted in order to prevent two of the coins from

becoming stacked in a single aperture.

25. (Original) The assembly of claim 24 wherein said wheel housing comprises a plurality of apertures arranged in order of increasing size.

26. (Original) The assembly of claim 25 wherein said plurality of apertures are spaced from each other.

27. (Previously Presented) A coin separating and sorting assembly comprising:

a separating wheel comprising:

at least one coin receiving aperture located in a wall of

5 said separating wheel,

a surface adapted to contact a driving element to enable rotation of said separating wheel;

a wheel housing on which said separating wheel is supported, said wheel housing comprising at least one sorting aperture;

10 a coin support surface provided on one of the separating wheel and the wheel housing for supporting a portion of an associated coin being moved by said separating wheel in relation to said wheel housing; and

a coin rolling surface defined on one of said separating wheel and said wheel housing.

28. (Original) The assembly of claim 27 further comprising a motor operatively connected to said separating wheel surface to enable rotation of said separating wheel when said motor is actuated.

29. (Previously Presented) The assembly of claim 27 wherein said at least one coin receiving aperture in said separating wheel includes a curved leading edge having a radius of curvature only slightly greater than a diameter of a largest size coin meant to be sorted.

30. (Previously Presented) The assembly of claim 29 wherein said at least one coin receiving aperture in said separating wheel includes a trailing edge having a larger radius of curvature than said leading edge.

31. (Withdrawn) A coin separating and sorting assembly comprising:

a separating wheel comprising at least one coin receiving aperture located in said separating wheel, said at least one coin receiving aperture comprising a leading edge and a trailing edge, wherein said leading edge has a radius of curvature which is greater than is a radius of curvature of said trailing edge;

a wheel housing on which said separating wheel is supported;

a coin support surface provided on one of the separating wheel and the wheel housing for supporting a portion of an associated coin being moved by said separating wheel in relation to said wheel housing; and

a coin rolling surface defined on one of said separating wheel and said wheel housing.

32. (Withdrawn) A coin separating and sorting assembly comprising:

BS
a separating wheel comprising at least one coin receiving aperture located in said separating wheel, said at least one aperture having a leading edge and a trailing edge, wherein at said leading edge, said separating wheel has a thickness slightly greater than a thickness of a thickest associated coin meant to be sorted and wherein said trailing edge has a tapered surface that is smaller in thickness than is a thickness of a thinnest one of the associated coins meant to be sorted;

10 a wheel housing on which said separating wheel is supported;

a coin support surface provided on one of the separating wheel and the wheel housing for supporting a portion of an associated coin being moved by said separating wheel in relation to said wheel housing; and

15 a coin rolling surface defined on one of said separating wheel and said wheel housing.

33. (Withdrawn) A coin separating and sorting assembly comprising:

a separating wheel comprising at least one coin receiving aperture located in a wall of said separating wheel;

5 a wheel housing on which said separating wheel is supported, said

Dec. 12. 2003 4:54PM

No. 0075 P. 14/17

PS

wheel housing comprising at least one coin sorting aperture located therein,
said wheel housing further comprising a central portion located radially
inwardly of said at least one sorting aperture, said central portion having a
recessed area in an upper surface thereof, wherein said recessed area is
10 located adjacent said at least one coin sorting aperture of said wheel housing.
